



The HMP45D combined temperature and humidity probe is particularly suited for humidity measurement at weather stations. It is very reliable, with a high tolerance to chemicals and intensive dust, and is easily serviced and calibrated. The probe head and filter can be easily removed and replaced and it has low power consumption. Typically the sensor is connected to a DAT12 interface unit providing two 4 to 20 mA loops suitable for longer cable runs back to the display equipment. The probe should be installed in a radiation shield or Stevenson Screen to prevent artificial heating of the sensors.

Manufacturer	Vaisala
Type	HMP45D Humidity and Temperature Probe
Measurement Ranges	0.8...100%RH (Relative Humidity) -39.2....+60°C (Temperature Measurement)
Accuracy at 20 °C	±2%RH (0-90%), ±3% (90-100%RH) for humidity, ±0.2°C for Temperature
Operating Environment	Temperature for operation -40....+60°C Temperature for storage -40....+80°C
Inputs and Outputs	
Operating Voltage	7...35VDC
Power Consumption	<4mA
Output	Without DAT12 -0 to 1V for humidity, 4 wire resistive (PT100) for temperature with DAT 12-2 Channel 4 to 20mA
Cable Length	3.5m
Weight	350g (including package)

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